

IN THE CLAIMS:

1. **(Currently Amended)** ~~A bow sight system~~ An improved rear sighting system for use in conjunction with a forward pin sight assembly on a bow, the ~~bow sight improvement~~ comprising;

a base plate for mounting on ~~[[a]]~~ said bow, ~~the base plate having a front for orienting forwardly on the bow and a rear for orienting rearwardly on the bow,~~ the said base plate having a mounting portion ~~for being mounted on the bow~~ and a support portion extending from the said mounting portion, the said base plate being elongated in a longitudinal direction ~~for the base plate~~ and having a longitudinal axis~~[[;]]~~, said mounting portion having a slot in the longitudinal direction and said support portion having a slide outwardly extending toward said mounting portion, said slide being removably insertable within said slot such that said support portion is transversely movable from said mounting portion along said longitudinal direction; and

a sighting assembly having a sight groove ~~for guiding and aiming the bow,~~ the said sight groove extending along an axis oriented substantially parallel to the plane of the said support ~~[[plate]]~~ portion, the said sighting assembly being mounted on the said base plate in a manner so that the said sighting assembly is adjustably movable along three axis of movement relative to said base plate ~~with respect to the base plate along an axis that is substantially perpendicular to a plane of the support portion of the base plate to permit adjustment of the position of the sight groove of the sighting assembly in a horizontal direction, the sighting assembly being mounted on the base plate in a manner so that the~~

~~sighting assembly is adjustably movable in a plane that is oriented substantially perpendicular to the longitudinal axis of the base plate to permit adjustments of the sight groove in a vertical direction when the sighting assembly is mounted on the bow, said sight groove having a length, a width and a height such that the said length has a longer dimension than the said width, said sight groove positioning the said length such that misalignment of the said bow will cause a portion of said sight groove to obscure a view through said sight groove.~~

2. **(Currently Amended)** ~~The bow sight system~~ improved rear sighting system of claim 1 additionally comprising a bow string mounted thereon, ~~the bow~~ said sighting assembly being mounted on the said bow in a position rearward of the said bow toward the said string for orienting toward an archer when the archer draws the said bow string of the said bow.

3. **(Currently Amended)** ~~The bow sight of claim 2 additionally comprising a pin sight assembly mounted on the bow in a position forward of the bow away from the archer such that the bow is located between the pin sight assembly and the bow sight assembly when the user draws the string of the bow.~~ The improved rear sighting system of claim 1 wherein said sighting assembly is mounted to said base plate along an axis that is substantially perpendicular to the plane of said support portion to permit adjustment of said position of said sight groove of said sighting assembly in a horizontal direction, said sighting assembly is further mounted to said base plate in a plane that is oriented substantially perpendicular to said longitudinal axis to permit adjustments of said sight groove in a vertical direction and said sighting assembly is further mounted

to said support portion along said longitudinal axis to permit adjustment of said position of said sight groove of said sighting assembly in a transverse direction relative to said mounting portion to adjust the distance between said sight groove and said forward pin sight assembly.

4. **(Currently Amended)** The ~~bow sight system~~ improved rear sighting system of claim 1 wherein the sighting assembly comprises:

a pedestal slidably mounted on ~~the~~ said base plate and having a channel formed therein;

a mast member mounted on ~~the~~ said pedestal with an end portion of ~~the~~ said mast member being positioned in ~~the~~ said channel of ~~the~~ said pedestal such that a position of ~~the~~ said mast member in the channel is adjustable, ~~the~~ said sight groove being mounted on ~~the~~ said mast member.

5. **(Currently Amended)** The ~~bow sight system~~ improved rear sighting system of claim 4 wherein ~~the~~ said sight groove has a substantially V-shaped cross section, ~~the~~ said sight groove being located near a top edge of a sight guide such that said sight guide will obscure the archer's view below ~~the~~ said V-shaped cross section.

6. **(Currently Amended)** The ~~bow sight system~~ improved rear sighting system of claim 5 additionally comprising a pair of alignment marks on ~~the~~ said sight guide, each of ~~the~~ said alignment marks being located on an opposite side of ~~the~~ said sight groove and located between a top of ~~the~~ said height of said sight groove and a bottom of ~~the~~ said height of said sight groove such that a first pin of said pin sight will form a line with said alignments marks

when said bow is in a proper position and said first pin will be obscured when said bow is not in a proper position groove and wherein at least a second pin of said pin sight will be obscured by a portion of said rear sight below said sight groove.

7. **(Currently Amended)** The ~~bow sight system~~ improved rear sighting system of claim 6 additionally comprising a light assembly being positioned to light the said alignment marks such that the said alignment marks will be visible in low light conditions.

8. **(Currently Amended)** A ~~[[bow]]~~ rear sight system for improving aiming of an arrow fired by a bow ~~having~~ which has a forward sight ~~near a forward portion of the bow~~, the ~~[[bow]]~~ rear sight system, comprising:

~~a first plate attachable to the bow; a bow sight assembly adjustably mounted to said first plate for adjusting the position of the sight assembly relative to the bow, fasteners to lock the position of the sight assembly relative to the first plate; said bow sight assembly including~~ a rear sight mounted on said bow such that said rear sight is adjustably movable along three axis of movement relative to said bow, said ~~[[a]]~~ rear sight non-integrally spaced from said forward sight in a direction substantially parallel to a direction of flight of ~~[[an]]~~ said arrow fired by said bow, said rear sight including a pair of alignment marks, located between a top of said rear sight and a bottom of said rear sight, that align with a pin on said forward sight only when said bow is properly aligned such that the said pin is located away from a bottom of said rear sight and wherein said pin is obscured when said bow is misaligned.

9. **(Currently Amended)** The ~~[[bow]]~~ rear sight of claim 8 wherein the said rear sight has a V -shape such that an archer can sight ~~the~~ said forward sight through the V.

10. **(Currently Amended)** The ~~[[bow]]~~ rear sight of claim 8 wherein the said rear sight is a groove having a front edge visible to an archer and a rear edge, a distance from ~~the~~ said front edge to ~~the~~ said rear edge defining a thickness of the said rear sight such that a misalignment of an eye of the archer relative to ~~the~~ said rear sight will obscure the archer's view of ~~the-front~~ said forward sight through ~~the~~ said rear sight.

11. **(Currently Amended)** The ~~[[bow]]~~ rear sight of claim 10 wherein the said groove has a V - shaped cross section and wherein ~~the-front~~ said forward sight is a pin sight.

12. **(Currently Amended)** The ~~[[bow]]~~ rear sight of claim 11 wherein said alignment marks are on either side of ~~the~~ said groove.

13. **(Currently Amended)** The ~~[[bow]]~~ rear sight of claim 12 including a light mounted for movement with said bow sight assembly, said light illuminating said alignment marks.

14. **(Currently Amended)** A ~~[[bow]]~~ rear sight for use in conjunction with a ~~target~~ pin sight on a bow, the ~~[[bow]]~~ rear sight, comprising;

a base plate for mounting on ~~[[a]]~~ said bow;

a sighting assembly mounted on ~~the~~ said base plate in a manner such that ~~the~~ said sighting assembly is adjustably movable with respect to ~~the~~ said base plate along ~~an axis perpendicular to the base plate:~~ three axis of movement, said

sighting assembly configured to be separately mounted on the said bow at a distance from said pin sight and wherein said sighting assembly includes a block with a sight groove having a length, a width and a height such that ~~the~~ said length has a longer dimension than the said width, the said length being in a direction such that an archer's view through said groove will be obscured by the block if said groove is turned.

15. (Cancelled)

16. (Currently Amended) The ~~[[bow]]~~ rear sight of claim 14 wherein ~~the~~ said groove is a V-notch.

17. (Currently Amended) The ~~[[bow]]~~ rear sight of claim 14 including an alignment mark on each side of said groove that form a linear pattern with a pin on said ~~forward~~ pin sight when said bow is properly aligned.

18. (Currently Amended) The ~~[[bow]]~~ rear sight of claim 17 including a light to illuminate said alignment mark on each side of said groove such that ~~the~~ said alignment marks are visible in low light conditions.

19. (Currently Amended) ~~A bow for firing an arrow comprising a bow having a string; a sight on a front portion of said bow and~~ A rear sight for use in conjunction with a pin sight on a bow, said rear sight, comprising:

a sighting groove mounted on a rear portion of said bow, said sighting groove being adjustably moveable along three axis of movement with respect to said bow such that an archer can sight through said sighting groove at said front sight only when said bow and archer are properly aligned, said sighting groove having a length, width and a height such that ~~the~~ said length has a longer

dimension than ~~the~~ said width, such that misalignment of the bow will cause a portion of ~~the~~ said groove to obscure a view through said groove.

20. (Currently Amended) The ~~[[bow]]~~ rear sight of claim 19 wherein said sighting groove is fixed relative to said bow and ~~[[to]]~~ separate from said front sight and said sighting groove includes a pair of alignment marks on each side of said groove and located between a top of ~~the~~ said height of said groove and a bottom of ~~the~~ said height of said sight groove wherein said front sight includes a pin sight wherein said pin sight aligns with said alignment marks on said rear sight only when said bow is properly aligned.

21. (Cancelled)

22. (New) The improved rear sighting system of claim 1 wherein said base plate is non-integral with said forward pin sight assembly.

23. (New) A rear sight system for use in conjunction with a forward sight assembly positioned on a bow, the rear sight, comprising;

a base plate mounted to said bow, said base plate having a mounting portion for being removably attached on said bow and a support portion extending from said mounting portion, said base plate being non-integrally connected to said bow with respect to said forward sight assembly; and

a sighting assembly connected to the support portion, the sighting assembly having a sight groove, said sight groove extending along an axis oriented substantially parallel to said support portion, said sighting assembly being mounted on said base plate in a manner so that said sight groove is adjustably movable along three axis of movement relative to said base plate,

said sight groove having a length, a width and a height such that said length has a longer dimension than said width, said sight groove positioning said length such that misalignment of said bow will cause a portion of said sight groove to obscure a view through said sight groove.

24. (New) The rear sight of claim 23 wherein said mounting portion has a slot in a longitudinal direction and said support portion has a slide outwardly extending toward said mounting portion, said slide being removably insertable within said slot such that said support portion is transversely movable from said mounting portion along said longitudinal direction in order to adjust a longer distance between the forward and rear sight.

25. (New) The rear sight of claim 23 wherein said length has a dimension of a $\frac{1}{4}$ inch.

26. (New) The rear sight of claim 23 wherein said forward sight is moveable along said longitudinal direction.